

# **INFORMATION DISCLOSURE STATEMENT TRANSMITTAL**

To Commissioner For Patents

Enclosed herewith is a Form PTO-1449, any required copies of documents listed thereon, and any concise explanation of their relevance is indicated below per 37 CFR 1.97.


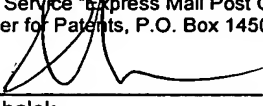
Application Number	10/538280
Filing Date	
First Named Inventor	Yusei UKAWA
Group Art Unit	
Examiner Name	
Atty. Docket Number	JP02 0024 US

- ☒ Please charge any required fee under §1.17(i) or §1.17(p) or any other required fee (except the issue fee) to Account No. 14-1270.
1. ☐ I certify that these documents were first cited in any communication from a foreign Patent Office in a counterpart foreign application not more than three (3) months ago.
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- ☐ A copy of the U.S. patent(s) and patent application publication(s) in all U.S. national patent applications filed after June 30, 2003, and in all international applications that have entered the national stage under 35 USC § 371 after June 30, 2003 under 37 CFR 1.491(b), are not required.
- ☐ A concise explanation of the relevance of each non-English document, as understood by the individual designated in §1.56(c) most knowledgeable about the contents, is enclosed per §1.98(a)(3).

The concise explanation of the relevance of any non-English document, as understood by the individual designated in §1.56(c) most knowledgeable about the contents, is that the document is/was:

- ☐ cited in the specification or considered in drafting the specification of this application;
- ☐ previously submitted or cited in the parent application (or in a related patent application Serial No. \_\_\_\_\_ Filing Date: \_\_\_\_\_);
- ☒ cited as an "X" or "Y" document in a foreign Patent Office search report in a foreign counterpart application, a copy of which report is also enclosed.

## **SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED**

Name	Kevin Simons, Reg. No. 45,110		
Signature		Date:	6/9/05
<p align="center"><b>CERTIFICATE OF EXPRESS MAILING</b></p> <p>I hereby certify that this paper and/or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 and is addressed to "Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Arlington, VA 22313," on the date indicated below.</p> <p>(Date) <u>6/9/05</u> (Signature) </p> <p>(Name) Daniel L. Michalek</p>			

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Examiner Name	
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## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number No.-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns Lines, Where Relevant Passages or Relevant Figures Appear
		US- 2002/113927	08-22-2002	HA KYOUNG-SU ET AL	
		US- 2002/003596	01-10-2002	KIM YONG-BEOM	
		US- 2003/160914	08-28-2003	HA KYOUNG-SU	
		US- 2003/117551	06-26-2003	NARUTAKI YOZO ET AL	
		US-			
		US-			

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number (ctry <sup>3</sup> -no. <sup>4</sup> -kind <sup>5</sup> , if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of cited document	Pages, Columns Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>

## NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in capital letters), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>

Examiner Signature		Date Considered	
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\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB 03/05948

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G02F1/1335

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/113927 A1 (HA KYOUNG-SU ET AL) 22 August 2002 (2002-08-22) figures 3-7	1-7, 9, 13
X	US 2002/003596 A1 (KIM YONG-BEOM) 10 January 2002 (2002-01-10) paragraph '0081!; figure 10	1-7, 9, 10, 12-14
P, X	US 2003/160914 A1 (HA KYOUNG-SU) 28 August 2003 (2003-08-28) figure 7	1-9, 13
P, X	US 2003/117551 A1 (NARUTAKI YOZO ET AL) 26 June 2003 (2003-06-26) figure 1	1-7, 9, 10, 12-14
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

18 March 2004

Date of mailing of the international search report

29/03/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

G111, R

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB 03/05948

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>KUBO M ET AL: "Development of Advanced TFT-LCD with good legibility under any ambient light intensity"</p> <p>JOURNAL OF THE SOCIETY FOR INFORMATION DISPLAY, SOCIETY FOR INFORMATION DISPLAY, SAN JOSE, US, vol. 8, no. 4, 2000, pages 299-304, XP002240612</p> <p>ISSN: 1071-0922</p> <p>figure 2</p> <p>-----</p>	1-15

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB 03/05948

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 2002113927	A1	22-08-2002	KR	2002068765 A	28-08-2002
US 2002003596	A1	10-01-2002	NONE		
US 2003160914	A1	28-08-2003	JP	2003255336 A	10-09-2003
US 2003117551	A1	26-06-2003	CN	1410815 A	16-04-2003
			CN	1409158 A	09-04-2003
			US	2003063244 A1	03-04-2003